



County of Riverside
DEPARTMENT OF ENVIRONMENTAL HEALTH

P.O. BOX 7909 • RIVERSIDE, CA 92513-7909

STEVE VAN STOCKUM, DIRECTOR

**CITATION FOR NONCOMPLIANCE – WATER SYSTEM NO. 3301491
NO. 05_63_17C_002**

Re: Alpine Village
System No. 3301491

Date: March 27, 2017

To: Will Lowry
P.O. Box 1323
Idyllwild, CA 92549

Section 116650, Article 9, Chapter 4, Part 12, Division 104 of the California Health and Safety Code (H&S Code), authorizes the issuance of a citation for failure to comply with the requirements of the California Safe Drinking Water Act, or any regulation, standard, permit order issued there under.

VIOLATION

The Department of Environmental Health (Department), hereby issues a citation to Alpine Village for the following violation:

Title 22 of the California Code of Regulations (CCR), Section 64426.1 (b). Specifically, Alpine Village failed the Acute Total Coliform Maximum Contaminant Level (MCL) during the month of February 2017. For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or any repeat sample is fecal coliform-positive or E.coli-positive; or any repeat sample following a fecal coliform-positive or E.coli-positive routine sample is total coliform-positive.

CHRONOLOGY OF EVENTS

This is a community water system with approximately 60 active service connections and 2-3 inactive connections (empty lots with meters).

There are currently three active sources for this water system and two pressure zones.

Well A (3301491-001) is 550' deep with a 5 hp submersible pump. Well A delivers water into the upper distribution system and can fill the 83,592 gallon tank. Well A pumps ~15-20 gpm. This well is metered.

Well #1 (3301491-002) is 660' deep with a 5 hp submersible pump. Well #1 pumps into the distribution system. This well is metered.

Well #2 Asbestos Mtn. (3301491-004) is ~500' deep with a 5 hp submersible pump. Well #2 pumps directly to the 83, 592 gallon bolted steel tank. This well pumps ~20-40 gpm. This well is metered. It runs off a generator because electrical power is not available. Well #2 was put online in August 2015. Due to the elevated uranium levels at Well #2, public notices are sent out quarterly.

The Community Well (3301491-003) has been taken off line due to recent total coliform present results. It is 300' deep with an 8" casing and a 5 hp submersible pump.

The 150,000 gallon gravity storage tank was recently placed back on-line due to water demand.

Recent History:

On February 15, 2017, Merl Johnson, certified water operator, collected the monthly routine bacteria sample from a sample tap located at St. Pierre and Palm Canyon representing the lower distribution system. The certified water operator mistakenly believed this location was Sample Station 4. This location continued to be labeled Sample Station 4 during this incident. The laboratory notified Johnson on February 16, 2017, stating that the bacteria result was total coliform present and E.coli present. Johnson immediately notified this Department with the E.coli results. This Department worked with Johnson and Alpine Village on the issuance of a Tier 1 Boil Water Notice (BWN) in English and Spanish. According to a Proof of Notification signed by Will Lowry, co-owner of Alpine Village, the Tier 1 BWN was hand delivered to the water system users by Alpine Village on February 16, 2017.

Johnson collected samples from the three online wells on February 16, 2017 (Well 1, Well A and the Community Well). Well 1 and Well A were both total coliform absent (<1.0 MPN/100 mL). The Community Well was total coliform present (100 MPN/100 mL) and E.coli absent.

The water system was chlorinated and flushed. On February 17, 2017, Johnson collected seven samples. Four resamples (Sample Station 1 –Chalet, Sample Station 2-Geneva Heights, Sample Station 3-Palm Canyon Dr. and Sample Station 4-Palm Canyon Dr.) and Well 1, Well A and the Community Well. The laboratory notified Johnson on February 18, 2017, with the following results: Sample Station 1 was total coliform present (47 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL), Sample Station 2 was total coliform present (160 MPN/100 mL)/E.coli present (2.0 MPN/100 mL), Sample Station 3 was total coliform present (88 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL), Sample Station 4 was total coliform absent (<1.0 MPN/100 mL), Well #1 was total coliform absent (<1.0 MPN/100 mL), Well A was total coliform absent (<1.0 MPN/100 mL) and the Community Well was total coliform present (120 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL). The Community Well was taken off line on February 17, 2017.

The water system was chlorinated and flushed again. On February 19, 2017, Johnson collected four resamples from the distribution system (Sample Station 1, Sample Station 2, Sample Station 3 and Sample Station 4). Sample Stations 1, 2, and 3 were all total coliform absent (<1.0 MPN/100 mL). Sample Station 4 was total coliform present (31 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL). In addition, Johnson conducted a cycle test on the Community Well after disinfecting the well and flushing to waste. The cycle test was at first draw, 5 minutes, 15 minutes, 30 minutes and 60 minutes. The 60 minute test did not reflect 60 minutes due to problems with the pump at 50 minutes. The results were total coliform present (50 MPN/100

mL)/E.coli absent (<1.0 MPN/100 mL), total coliform present (74 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL), total coliform present (110 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL), total coliform present (62 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL) and total coliform present (170 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL), respectively. The Community Well is still off online.

The water system continued to be chlorinated and flushed. On February 21, 2017, Johnson collected four resamples from the distribution system (Sample Station 1, Sample Station 2, Sample Station 3 and Sample Station 4). Sample Stations 1, 2, and 3 were all total coliform absent. Sample Station 4 was total coliform present /E.coli absent. Sample Stations 1, 2, and 3 were complete with two consecutive total coliform absent results. Sample Station 4 still needed to be cleared with two consecutive total coliform results at least 24 hours apart before the BWN could be cancelled. In addition, Well 1, Well A and Well 2 were sampled for bacteriological analysis. All three wells were total coliform absent (<1.0 MPN/100 mL). Well 2 was put on line.

As per the Federal Revised Total Coliform Rule, a Level 2 Assessment was triggered after the February 17, 2017, results. A Level 2 Assessment site visit was completed by this Department (Jackie Jones) on February 21, 2017. The assessment was given to the water system on February 23, 2017. Several deficiencies were noted on the assessment. The Community Well was taken off line and will remain off line until approval from this Department. The water system returned the Level 2 Assessment to the Department with a schedule to address the deficiencies on March 15, 2017.

The water system continued to be chlorinated and flushed. On February 23, 2017 at 0845 hours, Johnson sampled Sample Station 4. The result was total coliform absent (<1.0 MPN/100 mL). On February 24, 2017 at 0900 hours, Johnson sampled Sample Station 4. The result was total coliform absent (<1.0 MPN/100 mL).

The Department sent the Cancellation of Boil Water Notice to Alpine Village on February 27, 2017. Alpine Village started notifying the water consumers on February 27, 2017, and handed out the notices to the water consumers on March 6, 2017.

On March 8, 2017, Johnson collected five routine samples (Sample Station 1, 2, 3, 4 and Well 1). In addition, Well A was also sampled. All results were total coliform absent except for Sample Station 3: Total coliform present (21 MPN/100 mL)/E.coli absent (<1.0 MPN/100 mL). The water system was chlorinated and flushed in this area. Johnson collected four resamples (Sample Station 1, Sample Station 2, Sample Station 3 and Sample Station 4) and the two online wells: Well 1 and Well A. All results were total coliform absent.

DIRECTIVES

All consumers served by this water system must be notified of this violation, as required in Section 64426.1 (c). A Tier 1 Boil Water Notice was issued to Will Lowry on February 16, 2017. According to the Proof of Notification, the Tier 1 Boil Water Notice was hand delivered to the water consumers on February 16, 2017.

The Waterworks Standards requires that all chemicals added to drinking water by a water supplier must be certified as meeting the specifications of NSF/ANSI Standard 60 (Drinking Water Treatment Chemicals-Health Effects). Use only NSF/ANSI Standard 60 disinfectant when chlorination procedures are necessary.

Your public water system must be maintained so that the total coliform MCL is not violated. Continue to work with your certified water operator to correct and/or prevent reoccurrence of this violation.

Continued total coliform results may require a permanent chlorination system to be installed. This Department must approve plans to install a permanent chlorinator prior to installation. Additional sampling requirements will also apply.

The required coliform bacteria follow-up sampling to an unsatisfactory routine sample is described below. This must be completed each and every time that a routine coliform bacteria sampling is unsatisfactory.

1. Within 24 hours of being notified of an unsatisfactory coliform bacteria result by your laboratory, collect four resamples. If you are unable to collect the resamples within 24 hours, contact this Department. Collect the resamples at the sample tap where the unsatisfactory sample was taken, an upstream sample within 5 service connections of the unsatisfactory site, a downstream sample within 5 service connections of the unsatisfactory site, and a sample at the source(s) of water for the distribution system.

All active wells must be sampled. If the direction of flow in the distribution system is not known, or if the distribution system is quite small, contact this Department for guidance.

2. If any of the resamples are unsatisfactory, additional sets of resamples must be taken. Contact this Department for guidance.
3. In the month following the unsatisfactory sample collect five coliform bacteria samples.

The Community Well is not approved for use. Continue to work with the State Water Resources Control Board Division of Drinking Water for possible funding options.

Comply with the Level 2 Assessment (Date Assessment Completed: 2/21/17) deficiency schedule.

Collect five (5) routine bacteriological samples in April 2017.

By April 15, 2017: Update the Bacteriological Sample Siting Plan and provide a copy to this Department.

By July 1, 2017: Alpine Village shall include the Total Coliform Rule violations in their 2016 Consumer Confidence Report (CCR).

FURTHER ENFORCEMENT ACTION

Failure to comply with this notice and/or failure to comply with Title 22 of the California Code of Regulations may result in assessment of administrative penalties. This Department does not waive any further enforcement action by issuance of this citation.

If you have any questions, please contact me at (760) 863-7570.

A handwritten signature in cursive script that reads "Jackie Jones".

Jackie Jones, REHS
Environmental Health Specialist

Certified Mail: 7007 3020 0001 6550 3054